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## On using historical update information for instance identification in federated databases

Si, A. Ying, C.C. McLeod, D.

Dept. of Comput., Hong Kong Polytech., Hung Hom, Hong Kong;

*This paper appears in: Cooperative Information Systems, 1996. Proceed IFCIS International Conference on*

Meeting Date: 06/19/1996 - 06/21/1996

Publication Date: 19-21 June 1996

Location: Brussels Belgium

On page(s): 68 - 77

Reference Cited: 16

Number of Pages: xiv+249

Inspec Accession Number: 5431573

### Abstract:

To support database interoperability in federated databases systems, it is critical to identify (potentially) equivalent data instances from individual autonomous database components. Since the components in a federation are autonomous may be updated asynchronously, viz., modifications to a real world entity may be captured in different databases at different times; the authors term this effect heterogeneity. Existing approaches largely base data instance similarity identification only on current attribute/property values; in the face of update heterogeneity inadequate. They present an approach to address the problem of update heterogeneity in the federated databases context. They employ a probabilistic model, which utilizes **historical database** update information to estimate the degree of similarity between candidate data instances from different database components. They employ transaction history (**log**) information to this end, which is typically already available in the component database systems. They have experimentally implemented and tested the approach within the context of a prototype experimental federated databases system, FeXpress.

### Index Terms:

[concurrency control](#) [database theory](#) [distributed databases](#) [open systems](#) [FeXpress](#)  
[autonomous database components](#) [database interoperability](#) [equivalent data instance](#)  
[databases](#) [historical update information](#) [instance identification](#) [probabilistic model](#)

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Pages:773 - 778 vol.2[\[Abstract\]](#)[\[PDF Full-Text \(452 KB\)\]](#)**IEEE CNF****2 On using historical update information for instance identification in federated databases***Si, A.; Ying, C.C.; McLeod, D.;*

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Pages:68 - 77

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## National park management using self-developed an based geographic information systems

 Mu-Lin Wu [Young-Fa Lin](#) [Jin-Jen Yang](#) [Ching-An Chung](#)

Civil Eng. Dept., Nat. Pingtung Univ. of Sci. &amp; Technol., Dali, Taiwan;

*This paper appears in: Geoscience and Remote Sensing Symposium, 2001. IEEE 2001 International*

Meeting Date: 07/09/2001 - 07/13/2001

Publication Date: 9-13 July 2001

Location: Sydney, NSW Australia

On page(s): 2483 - 2485 vol.5

Volume: 5

Reference Cited: 5

Number of Pages: 7 vol.(lxxxii+xvi+xxii+xvi+xiv+3338)

Inspec Accession Number: 7327533

### Abstract:

Shei-Pa National Park is one of the six national parks in Taiwan. High mountain management and land-locked salmon conservation are pursued both daily and term basis at Shei-Pa National Park. GIS was developed using brand-name software and a set of self-developed, Web-based software. This paper discusses been done at Shei-Pa National Park using a self-developed and Web-based GIS. Databases have been created in the last seven years consisting of contour maps, intervals, roads, rivers, forest compartments, geology, digital orthophoto maps, park planning maps, and maps and drawings for every construction project. National park management has to look into conservation, research, recreation, and education simultaneously. Thus, GIS has been implemented to look at all aspects of problems associated with coordinates. Everything has to be **located** on relevant maps. The self-developed GIS can extract a single sheet of a 1:5000 map from the database on a color monitor for further examination whenever one set of x, y coordinates is entered. Different layers of maps, digital **images**, and attributes can be reviewed right on the monitor. Everything shown on a color monitor can be printed on a color printer. A palm device can show the required x, y coordinates in the mountains. GIS and **GPS** is the key component of the whole process. The whole process can also be performed using Internet Web browsers.

### Index Terms:

[geographic information systems](#) [natural resources](#) [GIS](#) [GPS integration](#) [Shei-Pa Park](#) [Taiwan](#) [Web-based geographic information systems](#) [construction projects](#) [c](#) [maps](#) [coordinates](#) [databases](#) [digital images](#) [digital orthophoto maps](#) [environmer](#) [education](#) [forests](#) [geology](#) [land-locked salmon conservation](#) [mountains managem](#) [park management](#) [planning maps](#) [recreation](#) [research](#) [rivers](#) [roads](#) [software](#)

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